1647

CRF Processing Date: 11/21/2000

Serial Number: 09/499,526

ENTERED

Edited by: _____

Verified by: _____ (STIC staff

HS
DT
12-18-00

- [ ] Changed a file from non-ASCII to ASCII

- [ ] Changed the margins in cases where the sequence text was "wrapped" down to the next line.

- [ ] Edited a format error in the Current Application Data section, specifically:

_____

- [ ] Edited the Current Application Data section with the actual current number. The number inputted by the applicant was [ ] the prior application data; or [ ] other _____.

- [ ] Added the mandatory heading and subheadings for "Current Application Data".

- [ ] Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

- [ ] Changed the spelling of a mandatory field (the headings or subheadings), specifically:

_____

- [ ] Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:

_____

- [ ] Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

_____

- [ ] Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

- [ ] Inserted colons after headings/subheadings. Headings edited included: _____

- [ ] Deleted extra, invalid, headings used by an applicant, specifically:

_____

- [✓] Deleted: [✓] non-ASCII "garbage" at the beginning/end of files; [✓] secretary initials/filename at end of file; [ ] page numbers throughout text; [ ] other invalid text, such as _____.

- [ ] Inserted mandatory headings, specifically: _____

- [ ] Corrected an obvious error in the response, specifically:

_____

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DEC 11 2000

TECH CENTER 1600/2900

- [ ] Edited identifiers where upper case is used but lower case is required, or vice versa.

- [ ] Corrected an error in the Number of Sequences field, specifically: _____

- [ ] A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

- [ ] Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____

- [✓] Other: Seq.1 - corrected amino acid Los.

_____

_____

Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

```
            RAW SEQUENCE LISTING              DATE: 11/21/2000
            PATENT APPLICATION:  US/09/499,526   TIME: 11:30:28

            Input Set : A:\ES.txt
            Output Set: N:\CRF3\11212000\I499526.raw
```

```
            SEQUENCE LISTING
 2 (1) GENERAL INFORMATION:
 3      (i) APPLICANT: Lu, Kuang-hui
 4                     Pang, Kevin
 5     (ii) TITLE OF INVENTION: Methods and Reagents for Treating
 6                              Glucose Metabolic Disorders
 7    (iii) NUMBER OF SEQUENCES: 3
 9     (iv) CORRESPONDENCE ADDRESS:
10          (A) ADDRESSEE: Foley, Hoag & Eliot
11          (B) STREET: One Post Office Square
12          (C) CITY: Boston
13          (D) STATE: MA
14          (E) COUNTRY: USA
15          (F) ZIP: 02109
16      (v) COMPUTER READABLE FORM:
17          (A) MEDIUM TYPE: Floppy disk
18          (B) COMPUTER: IBM PC compatible
19          (C) OPERATING SYSTEM: PC-DOS/MS-DOS
20          (D) SOFTWARE: ASCII (text)
21     (vi) CURRENT APPLICATION DATA:
22          (A) APPLICATION NUMBER: US/09/499,526
23          (B) FILING DATE: 10-Feb-2000
24          (C) CLASSIFICATION:
25   (viii) ATTORNEY/AGENT INFORMATION:
26          (A) NAME: Vincent, Matthew P.
27          (B) REGISTRATION NUMBER: 36,709
28          (C) REFERENCE/DOCKET NUMBER: ONV-058.01
29     (ix) TELECOMMUNICATION INFORMATION:
30          (A) TELEPHONE: (617) 832-1000
31          (B) TELEFAX: (617) 832-7000
```

C--> 22
C--> 23

ERRORED SEQUENCES

```
32 (2) INFORMATION FOR SEQ ID NO: 1:
33      (i) SEQUENCE CHARACTERISTICS:
34          (A) LENGTH: 36 amino acids
35          (B) TYPE: amino acid
36          (D) TOPOLOGY: linear
37     (ii) MOLECULE TYPE: protein
38     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
39 Tyr Pro Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu
40  1           5                  10                          15
41 Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr
42              20      25                          30
43 Arg Gln Arg Tyr
44      35
```

E--> 40
E--> 42
E--> 44

misaligned amino acid 20 S,

```
RAW SEQUENCE LISTING                    DATE: 11/21/2000
PATENT APPLICATION:   US/09/499,526     TIME: 11:30:28

Input Set : A:\ES.txt
Output Set: N:\CRF3\11212000\I499526.raw
```

```
C--> 90  (2) INFORMATION FOR SEQ ID NO: 3:
     91       (i) SEQUENCE CHARACTERISTICS:
     92            (A) LENGTH: 97 amino acids
     93            (B) TYPE: amino acid
     94            (D) TOPOLOGY: linear
     95       (ii) MOLECULE TYPE: protein
     96       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
     97  Met Val Phe Val Arg Arg Pro Trp Pro Ala Leu Thr Thr Val Leu Leu
     98  -28         -25               -20               -15
     99  Ala Leu Leu Val Cys Leu Gly Ala Leu Val Asp Ala Tyr Pro Ile Lys
     100        -10              -5                1
     101 Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn Arg Tyr
     102    5              10               15                20
     103 Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
     104              25               30               35
     105 Gly Lys Arg Asp Gly Pro Asp Arg Leu Leu Ser Lys Thr Phe Phe Pro
     106           40               45               50
     107 Asp Gly Glu Asp Arg Pro Val Arg Ser Arg Ser Glu Gly Pro Asp Leu
     108           55               60               65
     109 Trp
```

```
E--> 114  ATTENTION: Please note that this document was reconstructed to correct inherent conversion issues.
E--> 115
While care has been taken to ensure that all formatting unique to this document was preserved, you should,
E--> 116 nonetheless, review all document formats --
 particularly those for numbered paragraphs, Tables of Contents, and
E--> 117 any user-
defined styles you may have created in this document. Contact the Help Desk should you have any
E--> 118 further questions. *Upon completion of your review, please delete this comment. Thank you.*
```

VERIFICATION SUMMARY   DATE: 11/21/2000
PATENT APPLICATION: US/09/499,526   TIME: 11:30:29

Input Set : A:\ES.txt
Output Set: N:\CRF3\11212000\I499526.raw

```
L:22  M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:23  M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:40  M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
M:332 Repeated in SeqNo=1
L:47  M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
L:52  M:246 W: Invalid value of Alpha Sequence Header Field, [TOPOLOGY:], SeqNo=2, Value=[not relevant]
L:90  M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
L:114 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:0
L:114 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:114 M:330 E: (2) Invalid Amino Acid Designator, 12
M:332 Repeated in SeqNo=3
L:115 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:115 M:330 E: (2) Invalid Amino Acid Designator, 18
L:116 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:116 M:330 E: (2) Invalid Amino Acid Designator, 14
L:117 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:117 M:330 E: (2) Invalid Amino Acid Designator, 18
L:118 M:342 E: Invalid Stop Code On Error, STOP CODON:*
L:118 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:118 M:330 E: (2) Invalid Amino Acid Designator, 12
L:118 M:203 E: No. of Seq. differs, LENGTH:Input:97 Found:172 SEQ:3
```